45BC had decreed should be inserted every 4th year was intercalated in February beliveen the 23rd and 24th days, and this occurred affaithe 6th day preceding the Calends (fist day) of March. This intercalation resulted in any fixed festival which occurred after FEB falling on the next weekday but one to the day as which it fellin those 3 yes when interestation was not made. Thus

intercalation Caused FEB 23 boccur, tivil in intercularly year; the intercal estable day was therefore known as BISSEXTO KALENDAS and the year in which this eccured as BISSEXTILE is here been derived from the old note to still used decessionally

the Julian Cal. assumed the length of the yr. to be 365.25 days where as the tropical years nearly 305.2422 days. The Calyo was therefore 0.0078 days wa little wa 11 min 15 sec too long. This small faction does not become significant witel a long time has passed and amounts To a little over a day exter 130 years.

45BC Jan.1 Cassar fixed the normal length of the year as 365 day, with one day enterestated every 4 years after February 24, to make up to 365 1/4 days, the supposed true length of the tropical year, Coesar deliberation avandmed the lunar year enterely and adopted a solar year. Except for leop year - all intocalation become unrecessary. He seltled in exactly 365 days Chro. as the length of the year, and an approximation of this value has been such ever since. He had a series of 3 common years and a faculte, a leap year. He also altered the month lengths giving Feb 29 called all style and was introduced on Jane 1, 45 BC after 46BC having 445 days.

45BC The following Table is modporbable. [12/9/92] - 445 days 3700-366(P) 28Be-366(P) 46BC- 445 days 45BC-365 The Was 27 BC - 365 36BC-365 76 BC -365 35 BC-365

43 BC - 366(P) 34 BC - 366(P) 25BC - 366 (P)

33 BC - 365 34BC- 365

41Be - 365 32BC-365 23 BC - 365

42-BC- 365 40Be-366(P) 31BC-366(P) 22BC-366(P) 30BC- 365 21BC -365

39BC - 365

3830-365 2986-365 20BC-365 19 BC-366(P) 7BC-365(A) 18BC-365 6BC-365 (A) 5AC-365 (A) 17BC-365 4BC-365(A) 16BC-366(P) 3BC-365 (A) 15BC-365 14BC-365 2 Bc-365(A) (3BC-366P) 1 BC -365 (A) P= made leap yr (366)
by Pontapieco every 3 yrs
united & 4. 12BC-365 11BC-365 10BC-366(P) 9BC-365 A = Augustus ormitted from 8 Be- 1840 (total of 3) 8BC-365 (A)

JAN. 1, 45BC the months as fallows JANUARIUS-3 or Sup QUINTILIS - 31 FEBRUARIUS - 29 N30' SEXTILIS -30 - 31 MARTIUS -31 SEPT APRILIS - 30 - 30 OCT MAIUS - 31 NOV - 31 JUNIUS - 30 - 30 DEC Total 365 day ordinary (Feb 29d) (Feb 30d) Some say he more Feb from last to after Jan.

45BC Caesais calender ignored the stars. the year wholly regulated by the sun, was 365 days until every fourth (lesp) year with 366. He most the other old problem (that - to put it in Roman notation - CCCLXV or CCCLXVI cannot be divided by XII) (365 nn 366 count be divided evenly by 12) by giving the odd months 31 days, and the even

months 30, except February which had 19 ordensiely, 30 in teap year. This was at least a tidie and more memorable arrangement then our present me.

Jan 1,45 BC Boy Jan 1, 45 BC, the Calendar was in alignment with the soler year. He abolished the intereal any month. Indutes by lengthening 7 of the months by a day or 2 and phrisim was made for en extra "leap-year" day & be added every 4 th year between the 23rd \$ 24th

Tebruary.

Cuesar had the assistance of his
secretary MARCUS FULVIUS and
the Alejandrian mathematician

Songenes.